



Montana Department of
ENVIRONMENTAL QUALITY

Marc Racicot, Governor

P.O. Box 200901 • Helena, MT 59620-0901 • (406) 444-2544 • E-mail: www.deq.state.mt.us

December 5, 2000

William A. Spoja, Jr.
Sanitation Inc.
P.O. Box 692
Lewistown, Montana 59457

**RE: SANITATION INC. CLASS II LANDFILL, FERGUS COUNTY – LICENSE
NO. 291 GROUND WATER MONITORING–REVIEW OF THE JUNE 2000
SAMPLING EVENT**

Dear Mr. Spoja:

According to the laboratory's "Sample Condition QA/QC Report", the ground water samples collected on June 27, 2000 at the Sanitation Inc. Class II Landfill were received at the laboratory having a cooler temperature of 15 degrees Centigrade. This is 11 degrees higher than the accepted sample temperature for proper preservation of samples intended for volatile organic compound (VOC) analysis.

As implied in the site's Sampling and Analysis Plan and as stated in SW-846 and the RCRA Ground-Water Monitoring Technical Enforcement Guidance Document, samples are required to be preserved at 4 degrees Centigrade for VOC analysis (see attached copies of the tables from these documents).

Therefore, VOC analytical data from the June 27, 2000 semi-annual ground water sampling event is invalid. Re-sampling is encouraged however, since the Fall-Winter semi-annual sampling event is approaching, the Program will not require a re-sample at this time.

I can be contacted at the Permitting and Compliance Division, Community Services Bureau, Waste Management Section, phone (406)444-9538.

Sincerely,

Pat Potts – Environmental Specialist
Solid Waste Regulatory Program

Attachments: SW-846 Table 4-1, September 1994
RCRA TEGD, Table 4-1, pp. 111, 112, September 1986

cc: Damschen, P.O. Box 4817, Helena, MT 59604
Allen Gallagher, Sanitation Inc.
Mike Rinaldi, R.S., 305 W. Watson, Lewistown, MT 59457



TABLE 4-1.
SAMPLE CONTAINERS, PRESERVATION, TECHNIQUES, AND HOLDING TIMES

Analyte Class	Container	Preservative	Holding Time
<u>Volatile Organics</u>			
Concentrated Waste Samples	125 mL widemouth glass container with Teflon lined lid	Cool, 4°C	14 days
<u>Liquid Samples</u>			
No Residual Chlorine Present	2 X 40 mL vials with Teflon lined septum caps	Cool, 4°C ¹	14 days
Residual Chlorine Present	2 X 40 mL vials with Teflon lined septum caps	Collect sample in a 125 mL container which has been pre-preserved with 4 drops of 10% sodium thiosulfate solution. Gently swirl to mix sample and transfer to a 40 mL VOA vial. Cool, 4°C	14 days
Acrolein and Acrylonitrile	2 X 40 mL vials with Teflon lined septum caps	Adjust to pH 4-5; cool, 4°C	14 days
Soil/Sediments and Sludges	125 mL widemouth glass container sealed with a septum	Cool, 4°C	14 days

¹ Adjust pH <2 with H₂SO₄, HCl or solid NaHSO₄. FOUR - 6

UNITED STATES OF AMERICA

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

WASH. D. C. 20010

OFFICE OF THE ASSISTANT SECRETARY

FOR LAND MANAGEMENT

WASHINGTON, D. C. 20010

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TABLE 4-1

SAMPLING AND PRESERVATION PROCEDURES FOR DETECTION MONITORING^a

Parameter	Recommended Container ^b	Preservative	Maximum Holding Time	Minimum Volume Required for Analysis
<u>Indicators of Ground-Water Contamination^c</u>				
pH	T, P, G	Field determined	None	25 ml
Specific conductance	T, P, G	Field determined	None	100 ml
TOC	G, amber, T-lined cap ^e	Cool 4°C, ^d HCl to pH <2	28 days	4 x 15 ml
TOX	G, amber, T-lined septa or caps	Cool 4°C, add 1 ml of 1.1M sodium sulfite	7 days	4 x 15 ml
<u>Ground-Water Quality Characteristics</u>				
Chloride	T, P, G	4°C	28 days	50 ml
Iron	T, P	Field acidified	6 months	200 ml
Manganese		to pH <2 with HNO ₃		
Sodium				
Phenols	G	4°C/H ₂ SO ₄ to pH <2	28 days	500 ml
Sulfate	T, P, G	Cool, 4°C	28 days	50 ml
<u>EPA Interim Drinking Water Characteristics</u>				
Arsenic	T, P	<u>Total Metals</u>	6 months	1,000 ml
Barium		Field acidified to		
Cadmium		pH <2 with HNO ₃		
Chromium			6 months	1,000 ml
Lead		<u>Dissolved Metals</u>		
Mercury		1. Field filtration		
Selenium		(0.45 micron)		
Silver	Dark Bottle	2. Acidify to pH <2 with HNO ₃		
Fluoride	T, P	Cool, 4°C	28 days	300 ml
Nitrate/Nitrite	T, P, G	4°C/H ₂ SO ₄ to pH <2	14 days	1,000 ml

(Continued)

TABLE 4-1 (Continued)

SAMPLING AND PRESERVATION PROCEDURES FOR DETECTION MONITORING

Parameter	Recommended Container ^b	Preservative	Maximum Holding Time	Minimum Volume Required for Analysis
Endrin Lindane Methoxychlor Toxaphene 2,4 D 2,4,5 TP Silvex	T, G	Cool, 4°C	7 days	2,000 ml
Radium Gross Alpha Gross Beta	P, G	Field acidified to pH <2 with HNO ₃	6 months	1 gallon
Coliform bacteria	PP, G (sterilized)	Cool, 4°C	6 hours	200 ml
<u>Other Ground-Water Characteristics of Interest</u>				
Cyanide	P, G	Cool, 4°C, NaOH to pH >12. 0.6 g ascorbic acid ^f	14 days ^g	500 ml
Oil and Grease	G only	Cool, 4°C H ₂ SO ₄ to pH <2	28 days	100 ml
Semivolatile, nonvolatile organics	T, G	Cool, 4°C	14 days	60 ml
Volatiles	G, T-lined	Cool, 4°C	14 days	60 ml

^aReferences: Test Methods for Evaluating Solid Waste - Physical/Chemical Methods, SW-846 (2nd edition, 1982).
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
Standard Methods for the Examination of Water and Wastewater, 16th edition (1985).

^bContainer Types:

P = Plastic (polyethylene)
 G = Glass
 T = Fluorocarbon resins (PTFE, Teflon®, FEP, PFA, etc.)
 PP = Polypropylene

(Continued)

INITIALS 3 DATE 12/5/00
SOLID WASTE OUTGOING CORRESPONDENCE ROUTE SLIP

☐ **NEW APPLICATION**

Initial / Date

Mike D.

HAC

Christy

Rick T.

Jon D./ Other

☐ **NEW LICENSE**

Initial / Date

Mike D.

HAC

Karen

Christy

Rick T. / Other

☐ **HEALTH OFFICER CARD**

Initial / Date

Mike D.

Karen

Christy

☐ **INSPECTIONS**

Initial / Date

Pat C.

HAC

Karen

Rick T.

☐ **INTERIM CLOSURES**

Initial / Date

Mike D.

HAC

Karen

Christy

Rick T./ Other

☐ **CLOSURES**

Initial / Date

Mike D.

HAC

Karen

Christy

Rick T./ Other

☐ **CHANGE IN LICENSE
FOR FEE STATUS**

Initial / Date

Mike D.

HAC

Christy

☐ **COMPLAINTS**

Initial / Date

Pat C.

HAC

Karen

☒ **GROUND WATER**

Initial / Date

HAC

Pat C

☐ **GENERAL CORRESPONDENCE**

Initial / Date

Pat C./ Mike D.

HAC

Rick T.

Jon D./ Other

☐ **MISCELLANEOUS**

Initial / Date

FILE

Path

Fergus Co
 Sanitation Invc # 29/
 grd wtr mon (corresp)

**CLOSED
SANITATION INC.
LICENSE NUMBER 291**

ENTRANCO

**AUTUMN 2000 GROUND-WATER
MONITORING**

FEBRUARY 2001

**IS LOCATED IN THE GROUNDWATER
MONITORING REPORTS ARCHIVE,
BOX NUMBER 2**

RECEIVED 2/20/2001

**CLOSED
SANITATION INC.
LICENSE NUMBER 291**

DAMSCHEN-ENTRANCO

SPRING 2000 GROUND-WATER ANALYSES

AUGUST 2000

**IS LOCATED IN THE GROUNDWATER
MONITORING REPORTS ARCHIVE,
BOX NUMBER 2**

RECEIVED 8/30/2000

FILE TYPE	PAGES	DATE	FROM	TO	RE
GWMonit 2000-Sec.2	5	12/05/00	Pat Potts	Bill Spoja	Letter re: Ground Water Monitoring- Review of the June 2000 Sampling Event
GWMonit 2000-Sec.2	multiple	02/13/01	Bruce Siegmund	Pat Potts	Letter w/ results of the 2000 ground- water monitoring at the landfill

